

KOSHKAROVA, D.D., mladshiy nauchnyy sotrudnik; POPOVA, A.A., kand. biolog.nauk; YEFREMOVA, R.Z., starshiy nauchnyy sotrudnik

Cultivation practices in the control of tobacco and makhorka diseases. Zashch. rast. ot vred. i bol. 9 no.3:21-22 '64. (MIRA 17:4)

1. Azerbaydzhanskiy institut zashchity rasteniy, Kirovabad (for Koshkarova). 2. Ukrainskaya opytnaya stantsiya po tabaku i makhorke, Priluki, Chernigovskaya obl. (for Popova, Yefremova).

ACCESSION NR: AT4040561

S/2564/64/004/000/0148/0150

AUTHOR: Popova, A. A.

TITLE: Growth of Cr203 single crystals by the Verneuil method

SOURCE: AN SSSR. Institut kristallografii. Rost kristallov, v. 4, 1964, 148-150

TOPIC TAGS: chromium oxide, corundum, single crystal, crystal growth, Verneuil method, crystal defect, chromium oxide boule

ABSTRACT: The discovery of antiferromagnetic transitions in Cr₂O₃ crystals has attracted considerable attention. The difficult problem of preparation of the charge for Cr₂O₃ crystallization by the Verneuil method has been solved by calcining of chromium oxide at 1200C, then at 1400C. Actual crystal growth was carried out in the apparatus constructed by S. K. Popov [Sb. "Rost kristallov." v. II. Izd-vo AN SSSR, 1957, 140-209]. Crystals as large as 12 x 12 x 30 mm were obtained. Crystal forms are described and some macroscopic

Card 1/2

ACCESSION NR: AT4040561

growth defects of the boules (surface growth structures and twin interlayers) are shown. The microhardness of single crystals approached that of corundum. Orig. art. has: 3 figures.

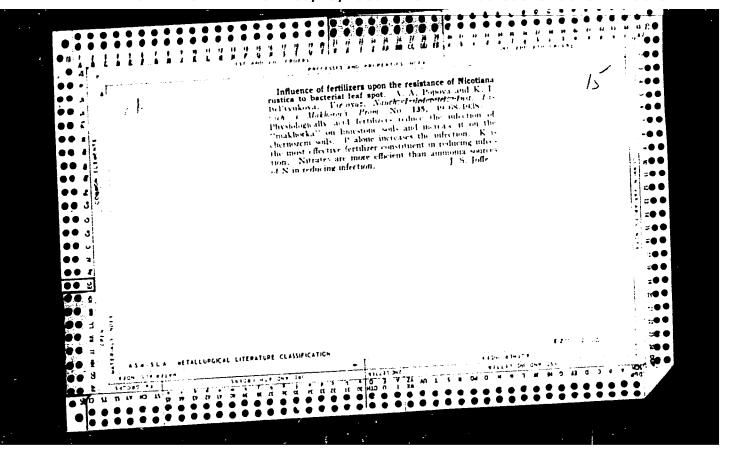
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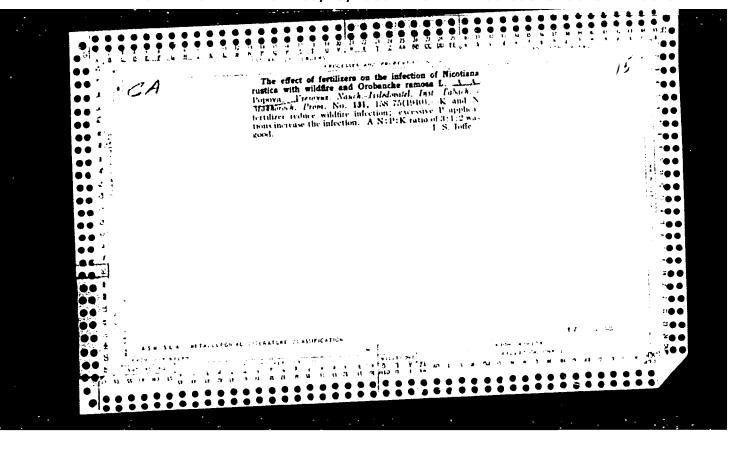
SUBMITTED: 00 DATE ACQ: 02Jul64 ENCL: 00

SUB CODE: SS NO REF SOV: 003 OTHER: 004

"Besterial Wilt of Makhorka," Biulleten' Mauchned asledowatel'skeno
Instituta Tabuchnel i Makhorochnol Promyshlennosti imeni A. I. Mikolana,
no. 126, 1936, pp. 57-63. 69.9 KB6

So: SIRA S1-96-53, 15 Dec 1953





POPOVA, A. A.

PORCVA, A. A. "Thermal Method for Disinfequing Pobacco and Makhork: Seeds," Biulleten' Vacsoluznogo Nauchno-Essledovatel'skogo Estituta Tabachnoli Makhorochnol Promyshlennosti imeni A. I. Mikolana, no. 141, 1940, pp. 3-2%. 69.9 806

So.: SERA, SI-50-53, 15 Dec. 1553

GROCCHEVOY (S. E.) & P.OFOVA (Ming A. A.). Програмливание корней расскам пуред писадкой как мера борьбы с болезники Табака и Махорки. (Treatment of seedling roots before transplanting in the control of Tobacco and Indian Tobacco diseases.)—ibid., pp. 62-77, 1940. [English summary.]

wyld

lots), that of black root rot (Thielaviopsis basicola) [see preceding abstracts] reduced on the average 2-4 times (from 0-6 to 63-2 per cent. in the untreated control to 0-05 to 38-1 per cent. in the treated lots). completely controlled (the infection ranging from 0-8 to 50 per cent. the roots of tobacco and Indian tobacco (Nicotians rustica) seedlings before replanting in 1 per cent. Bordenux mixture. In tobacco, the incidence of hacterial 'ryaboukha' (Bacterium tabacum) was almost xxiii, p. 635] in which various chemicals were tested on a number of of ring spot (virus) 1-6 times (from 3 to 68 per cent, in the untreated control to 0-3 per cent. in the treated lots. In Indian tobacco, the of Phyllosticta [ibid., x, p. 628] from 2:1 per cent. in the untreated untreated control to 0 to 10.8 per cent. in the treated lots), and that in the untreated control, and from 0 to 2-7 per cent. in the treated farms from 1957 to 1939, the best results were obtained by dipping especially if the seedlings were treated when too small or over-mature dry regions, however, the treatment resulted in thinner stands when the seedlings were treated at the stage of normal maturity; in effect on the subsequent development of tobacco and Indian tobacco moisture, the dipping of seedling roots in disinfectant had no harmful control to 0 to 48.5 per cent. in the treated lots). In regions of sufficient the untreated control to 0 to 36 per cent. in the treated lots), and that incidence of Buct, tabacum was reduced from 3-0 to 63-5 per cent, in that of tobacco messic + to 5 times (from 1.4 to 42 per cent, in the plants in the field and sometimes even improved the yields, particularly low-lying, moist areas in the dry one. The treatment is therefore recommended only for the wet zone or for In further experiments on the control of tobacco diseases [R.A.M.,

Рогоул (Мте. А. А.). Влияние удобрений на поражаемость Махорки бактеринльной рябухой и заразихой. [The effect of fertilizers on the infection of Indian Tobacco with wildfire and Broomrape.] —ibid., pp. 158-175, 1940. [English summary.] According to a survey completed in 1938, bacterial 'ryaboukha', referred to by the author as wildfire [Bucterium tabacum; see preceding and next abstracts] is the most prevalent disease of Indian tobacco (Nicotiana rustica) in the Ukraine, infecting 62-7 per cent. of the inspected area and occurring usually in a severe or moderately severe form. In field trials conducted from 1936 to 1938, it was found that the application of potassium and nitrogen fertilizers to the soil generally reduced the amount of wildfire in N. rustice whereas dressings of phosphate often increased it. While the application of a combined nitrogen-potassium fertilizer reduced the percentage of infected plants from 48.7 in the untreated plots to 9.7, the addition of phosphate in various forms to that fertilizer resulted in much less satisfactory control. The best results in controlling wildfire as well as Orobanche rumosa were obtained by applying the complete nitrogen-phosphoruspotash fertilizer in the autumn in the proportions 300: 100: 200, which reduced the percentage of infected plants from 7 in the untreated control to 0 and increased the average plant weight from 93-3 to

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001342420013-1"

327-1 gm.; and 600: 180: 300, reducing the percentage of infected plants from 14 to 0.5 and increasing the average plant weight from

99-2 to 195-6 gm.

Рогоуд (Міве А. А.). Присмы агротехники в борьбе с бактерияльной рабухой Махорки. [Agrotechnical methods in the control of wildfire of Indian Tohacco.] -ibid., pp. 176-195, 1940. [English summary.] The following agricultural practices were found from 1932 to 1938 to exert an effect on the incidence of bacterial 'ryaboukha' or wildfire [Bacterium tabacum: see preceding abstracts] on Indian tobacco (Nicotiona rustica). Plants sown directly in the field were usually more affected (14 to 5:2 per cent.) than those transplanted from the seed-bed (1.0 to 3.4 per cent.), except in isolated years with a particularly early outbreak of wildfire, when the case may be reversed. Early planted Indian tobacco showed less infection (31/2 to 33/2 per cent.) than late planted (40-1 to 50-8 per cent.), the same difference being observed between the early and late dates of sowing (3-0 to 22-5 as compared with 5 to 35 per cent.). A reduction in the amount of the disease from 53.2 to 12.2 per cent, was obtained by loosening the soil between the rows every six days as compared with control plots in which weeds were cut down without disturbing the soil. With plants sown directly in the field, thinning out in the phase of the fourth to sixth leaf resulted in less disease than when postponed to later dates. Planting of protective rows decreased the amount of infection from 30 in the unprotected plants to between 5-3 and 12-5 per cent. Growers are advised to plant such protective rows to the windward, and to use plants taller than Indian tobacco, Indian tobacco cultivated on the same field for two to three years in succession suffered more from wildfire than when grown in rotation, particularly with leguminous crops.

POPOVA, A. A.

"Bacterial Wilt and Top Chlorosis of Makhorka Tobacco and Their Control." Cand Agr Sci, Khar'kov Order of Labor Red Banner Agricultural Inst imeni V. V. Dokuchayev, Min Higher Education USSR, Khar'kov, 1955. (KL, No 17, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

TRUKHAN, P.T.; TISHCHENKO, I.T.; STANKEVICH, L.A.; POPOVA, A.A.;

DOBROVSKAYA, A.R.; prinimali uchastiye: PETROVA, M.P.;

RYAZANSKAYA, A.A.; TRIGUBOV, S.P.; RABINOVICH, A.M.; GELER, S.S.

Use of V-globulin for the prevention of infectious hepatitis in children's collectives. Report No.2: Results of epidemiological observation in children's collectives. Zhur. mikrobiol., epid. i observation in children's collectives. Zhur. (MIRA 18:12) immun. 42 no.11:138 N '65.

1. Kiyevskiy institut usovershenstvovaniya vrachey, Kivevskaya gorodskaya sanitarno-epidemiologicheskaya stantsiya i sanitarno-epidemiologicheskaya stantsiya Podol'skogo rayona Kiyeva (for Trukhan, epidemiologicheskaya stantsiya Podol'skaya. 2. Podol'skaya Tishchenko, Stankevich, Popova, Dobrovskaya). 2. Podol'skaya rayonnaya sanitarno-epidemiologicheskaya stantsiya Kiyeva (for rayonnaya sanitarno-epidemiologicheskaya stantsiya Kiyeva (for Petrova, Ryazanskaya, Trigubov, Rabinovich, Geler).

L 25512-66 EWT(1)/EWT(m)/EWP(w)/EWA(d)/T/EWP(t) IJP(c) JD

ACC NRi AP6011400

SOURCE CODE: UR/0057/66/036/003/0521/0525

AUTHOR: Drokin, A.I.; Salanskiy, N.M.; Popova, A.A.; Smolin, R.P.

50

ORG:, Institute of 'Physics of the SO ANESSR, Krasnoyarsk (Institut fiziki SO ANESSR)

TITLE: Barkhausen effect in magnesium-manganese ferrite single crystals

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 3, 1966, 521-525

TOPIC TAGS: magnetic hysteresis, Barkhausen jump, single crystal, ferrite, magnesium, manganese, solid solution, temperature dependence

ABSTRACT: Magnetic hysteresis and the Barkhausen effect have been investigated at temperatures from 20 to -196°C in magnesium-manganese ferrite single crystals of six different compositions. The crystals were grown in an oxyhydrogen flame by the Verneuil technique, using an apparatus similar to that described by K.S.Popov (Izv. AN SSR, Ser. fiz. 10, 505, 1946). The compositions of the materials (expressed in mole percent of MgO. MnO, and Fe₂O₃) ranged between 7.5 and 25% MgO, 25 and 55.5% MnO, and 33.5 and 50% Fe₂O₃. Two of the samples contained 50 mole percent Fe₂O₃. All the crystals contained small quantities of hausmannite. Most of the measurements were made on 0.2 x 1.5 x 10 mm³ rectangular rods cut with the long axis in a [100] direction and the large face parallel to the (100) planes. The Barkhausen jumps were recorded during slow reversal of fields ranging in strength from 40 to 80 Ce. The hysteresis loops were highly rectangular at all temperatures, the squareness ratio in

Card 1/2

UDC: 536.12

L 25512-66 ACC NR: AP6011400

one case being 98.1%. For all the crystals the field distribution of Barkhausen jumps (number of jumps per unit change in the magnetizing field as a function of the magnetizing field) exhibited two sharp maxima at fields corresponding to the bends of the hysteresis loop. It is suggested that these maxima may be associated with nucleation and the disappearance of domain structure. The amplitude distribution of the Barkhausen jumps was approximately exponential in all the materials. The temperature dependence of the Barkhausen jump amplitude distribution for the two materials containing 50% Fe₂0₃ was anomalous. In the other four materials the numbers of Barkhausen jumps of all sizes increased with decreasing temperature. the number of jumps remaining approximately constant between about -160 and -80° C and varying greatly with the temperature at both lower and higher temperatures. It is suggested that the existence of a temperature interval in which the number of Barkhausen jumps is temperature independent may be of use in the design of low noise devices. In the two materials containing 50% Fe₂O₃ the number of Barkhausen jumps of all sizes decreased rapidly with decreasing temperature, and at the lowest temperatures the Barkhausen effect could not be observed at all, although hysteresis loops were present. No explanation is offered for this anomalous behavior. Orig. art. has: 5 figures and 1 table.

SUB CODE:

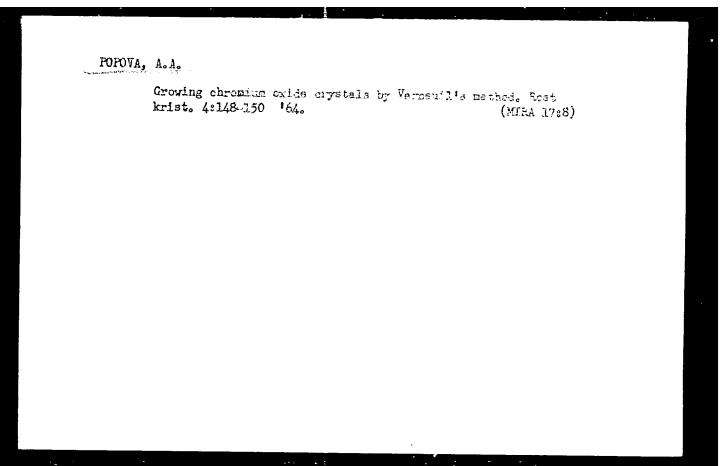
SUBM DATE:

ORIG. REF:

TRUKHAN, P.T.; POPOVA, A.A.; Prinimali uchastiye: DOMBROVSKAYA, A.R.; GROSMAN, Z.M.; STROMILO, L.I.; SEGAL', E.M.

Globulin immunization of schoolchildren to prevent infectious hepatitis. Report no.1: Reactions following the introduction of gamma globulin. Zhur. mikrobiol., epid. i immun. 41 no.10: 143-144 '64. (MIRA 18:5)

l. Kiyevskiy institut usovershenstvovaniya vrachey i Sanitarnoepidemiologicheskaya stantsiya Podol'skogo rayona Kiyeva.



"The use of aeromethods in geobotanic studies in the Volga-Ahtubinsk Meadow and in the Delta of the Volga River" by L.S.Rodman. Reviewed by Ana Popova. Probleme geog 9:360-362 '62. (publ. '63)

POPOVA. A.A.

-USCR/Solid State Physics - Morphology of Crystals.

E-8

Crystallization.

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 11809

Author

Ikornikova, N.Yu., Popova, A.A.

Inst

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Inst :

Chemical Etching of Corundum Rods.

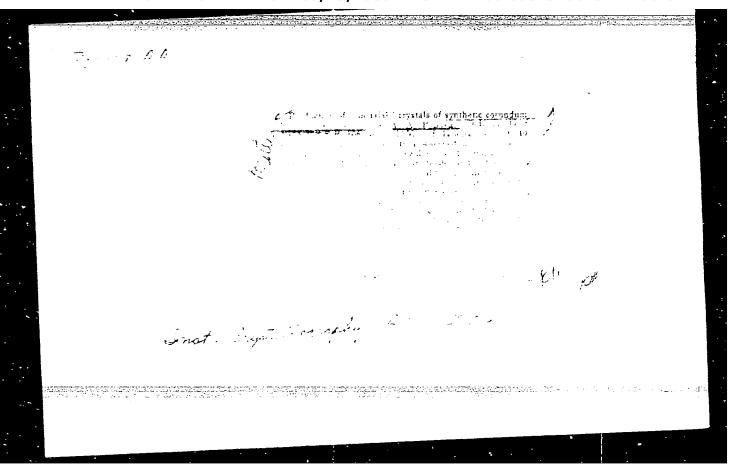
Orig Pub

: Tr. In-ta kristallogr. AN SSSR, 1956, vyp. 12, 119-131

Abstract

: A crystallographic study was made of the matte bands, that are formed on surfaces of etched corundum rods. The etching of disoriented rods was carried out in solutions of various substances at higher temperatures. It is shown that during the process of etching the surface of the rods is covered by faces of the same crystallographic band, whose axis coincides with the axis of growth of the rod or is close to it. The faces (0001), (1120), (1011) are characterized in this case by multi-facet etching figures. On the second-degree faces, one usually observes two-facet

Card 1/2



SOV/70-3-6-13/25

Belov, K.P., Popova, A.A. and Talalayeva, Ye.V. AUTHORS:

TITIE:

The Electrical and Galvanom ignetic Properties of Single Crystals of Manganese Ferrice (Elektricheskiye i gal'vanomagnitnyye sveystva morokristallov ferrita margantsa)

Kristallografiya, 1958, Yol 3, Nr 6, pp 733-9 (USSR) The temperature dependence of the electrical resistance and PERIODICAL:

the longitudinal galvanoma netic effect in single crystals of manganese ferrite have seen measured. The temperature ABSTRACT:

dependence of the resistance is complicated. Near the observed which have a ster form. It is supposed that Curie point on the lines these steps arise because at the Curie point crystals of manganese ferrite transform to a degenerate electron

state. It is established that the dependence of the longitudinal galvanomagnetic effect on temperature, field and magnetisation is analogous to the dependence observed in metal ferromagnetics. The crystals of MnFe₂O₄ used

were made by the Verneil | rocess and X-ray and chemical analysis were used to establish the orientation and texture of the specimens which were rods of about The specific

0.2 cm² cross-section and 1 cm length. Cardl/3

SOV/70-3-6-13/25
The Electrical and Galvanomagnetic Properties of Single Crystals of Manganese Ferrite

resistances r were of the same order as that of the polycrystalline material (1 k Ω .cm). The conductivity is associated with the occurrence of ions in two valency states in alternation in certain directions. The much smaller conductivity observed here than in the case of magnetite is a consequence of the presence of Mn⁺³ and Mn⁺⁴ ions in the same set of equivalent positions and the absence of Fe+3 ions. A graph of the conductivity against temperature is given. Log r against T-1 is roughly a straight line but is broken into regions. Each can be described by r = A exp dE/kT where dE has a different value for each of six sections, namely 0.30, 0.26, 0.20, 0.32, 0.50 and 0.32 eV. region near the Curie point (near 103 /T = 1.8) was studied more closely. It is thought that on the transition from the paramagnetic state to the ferromagnetic the semi-conductor passes through a state of electronic degeneracy (as in a metal) and then becomes a semi-conductor again. The slope of the line $\log r(1/T)$ should be less in the ferromagnetic state than in the paramagnetic.

Card2/3

SOV/70-3-6-13/25 The Electrical and Galvanomagnetic Properties of Single Crystals of Manganese Ferrite

> As in the case of most ferromagnetics, the longitudinal galvanomagnetic effect in the region of technical magnetidation has a positive sign. With increasing temperature the sign changes to negative at lower and lower temperatures until at 270 °C the sign is always negative. The effect is also plotted out as a function of the square of the specific magnetisation. There are 10 figures, 1 table and 6 references, 4 of which are Soviet, 1 French and 1 English.

ASSOCIATION: Institut kristallografii AN SSSR (Institute of

Crystallography of the Ac.Sc.USSR) and Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (University im. M. V. Lomonosov)

SUBMITTED: July 12, 1958

Card 3/3

sov/20 -121-3-16/47 Popova, A. A. AUTHOR: The Production of Single Crystals of Ferrites According to the Method by Verneuil (Polucheniye monokristallov ferritov metodom TITLE: Verneylya) Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 3, pp 453-454 PERIODICAL8 (USSR) Up to the present, the properties of the ferrite materials were ABSTRACT:

investigated for the most part on polycrystalline specimens or on small crystals which were grown in a melt. In the Institut kristallografii AN SSSR (Institute of Crystallography AS USSR) ferrite single crystals were produced in an oxygen-hydrogen flame according to Verneuil's (Verneyl) method. For this purpose an apparatus constructed by S. K. Popov (Ref 3) was used. The initial material for these investigations was produced by calcination of a mixture of iron-ammonium alum and of sulfates of bivalent salts. The crystais were grown from mixtures containing various quantities of the oxides of Mn, Co, Ni, Zn, Mg - Mn, Mn . Zn, and Ni-Zn. The crystals had diameters of up to 7 - 8 mm and lengths of up to 50 mm (in some cases of up to 90 mm). The monecrystalline properties of the specimens were confirmed

Card 1/2

24(4)

The Production of Single Crystals of Ferrites 307/20-121-3-16/47 According to the Method by Verneuil

by X-ray investigations and by goniometric measurements. The hardness of the crystals amounted to 6-6.5 according to the Moos scale. In order to obtain the degree of homogeneity in the longitudinal direction, the crystals were analyzed chemically. The results of these investigations are given in a table. According to these data, the crystals have a sufficiently homogeneous composition. Nevertheless, there is a slight tendency towards an increase of the content of Hausmante in the direction perpendicular to the basis of the crystals. The difference of the Mn₃O₄ content is very insignificant with the only exception of the upper parts of the crystals. There are 1 figure, 1 table, and 5 references, 1 of which is Soviet.

PRESENTED: February 17; 1958, by A. V. Shubnikov, Academician

SUBMITTED: February 12, 1958

Card 2/2

S/058/62/000/004/094/160 A061/A101

AUTHOR:

Popova, A. A.

TITLE:

Orientation of single crystals of some ferrites

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 4, 1962, 9-10, abstract 4E80 (Sb.

"Rost kristallov. T. 2", Moscow, AN SSSR, 1959, 84-87)

TEXT: It is shown that the goniometric method can be used to determine the crystallographic orientation of ferrite single crystals grown by Verneuil's method. The Co ferrite single crystal is formed by three simple basic forms $\{111\},\{110\},\{001\}$. The axis of growth coincides with one of the L_2 axes. The Mn ferrite crystal is formed by simple forms $\{111\}$ and $\{001\}$. The axis of growth coincides with that of stress for one of the L_3 axes.

[Abstracter's note: Complete translation]

Card 1/1

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-	Pertity: fizitestye i fiziko-knimicheskiye svojstva. Doklady (Fertites: Physical and Physicochemical Properties. Reports) (Minsk, Izd-vo A. BSSR, 1960. 655 p. Errata slip inserted. A. OOO contes prined.	- · ·
,	Sponsoring Agencies: Nauchnyy sowet po magnetizmu AN SSSR. Otdel filler tweedogo tela i poluprovodníkov AN BSSR.	1
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•	FURIOSE: This book is intended for physicists, physical chesists, made electronics enginess, and technical personnel engaged in the production and use of ferromagnetic materials. It may also be used by students in entanced courses in radio electronics, physics, and physical chemistry.	
ا الاطائية وه	COVENABL: The book contains reports presented at the Third All- Union Conference on Ferrites held in Minsk, Belorussian SSH, The reports deal with magnetic transformations, electrical and galvanomagnetic properties of ferrites, studies of the growth	- 1
	of ferrite angle crystals, problems in the cheatcal and physicochemical analysis of ferrites, studies of ferrites having rectangular by steepess a loops and multicophorni ferrite systems exitibiting apontaneous rectangularity, problems in angretic extraction, highly coerrive ferrites, against contractoropy.	
	using ferrite components in electrical circuits, anisotropy of electrical and sagnetic properties, etc. The Committee on Magnetic properties, etc. The Committee on Magneties and USSR (8, V, Vonsovekiy, Chairan) organized the cunference. References accompany individual articles.	
	Akulov, M. S. Theory of the Rectangular Bysteresis Loop 73 X Turov. Te. A. and A. I. Mitsek. Theory of the Temperature	• _
	Dependence of the Manetic Anisotropy Constant of Perronas netics and Perrites	
:	Viscov. R. W., and B. Rh. Inhunkharatov. Rotation of the Folarization Plans of Rissite Waves in Pagestically Folarized %1 Pagestos Lastic Weds	
	Syrkin, L. M. Discussion of the [Preceding] Report	
.,	A Sirota, M. M. The Physicochemical Nature of Perrites and 50 Their Properties	
	XSIPOL N. N., E. A. Overychuk, and N. P. Tekhanovich. Some Peculiarilles of the Angestic fransformation of Perites at Curie foil	
	Deloy K. P., and J. Z. Levitin. Magnetoclastic Phenomena 78	
٠	Magnetic and Sir Properties of Magnesius-Maganese Parrite 51ngle Crystals	
;	Titora, A. G. Growing Ferrite Single Crystals With Byructure of the Garnet Type	
	Card 4/28	•
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S/056/60/038/006/043/049/XX B006/B070

2,4,7900 (1055,1144,1160) AUTHORS: Belov, K. P

AUTHORS: Belov, K. P., Belov, V. F., Popova, A. A.

Single Crystals of Magnesium Manganese Ferrites With &

Narrow Ferromagnetic Resonance Absorption Curve

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960,

Vol. 38, No. 6, pp. 1908 - 1910

TEXT: The present "Letter to the Editor" gives some experimental results obtained from some spinel-type ferrites with a narrow resonance absorption line. The line width ΔH was measured for different magnesium manganese ferrites with different oxide ratios of Mn and Mg. The single crystals studied were bred by the method of Verneuille. The specimens were spherical in shape with a diameter of 0.8-1 mm; their surfaces were polished. The measurements were made at a frequency of 9470 Mc/sec. The results of measurement, namely, the values of ΔH , of the saturation magnetization $4\pi I_{\rm S}$, and of resistivity Q are shown in Table 1. Fig.1 shows the anisotropy of the line width in the (110) plane of a specimen having the composition last mentioned in the Table at room temperature (continuous

Card 1/4

TITLE:

85700

Single Crystals of Magnesium Manganese Ferrites With a Narrow Ferromagnetic Resonance Absorption Curve

s/056/60/038/006/043/049/XX B006/B070

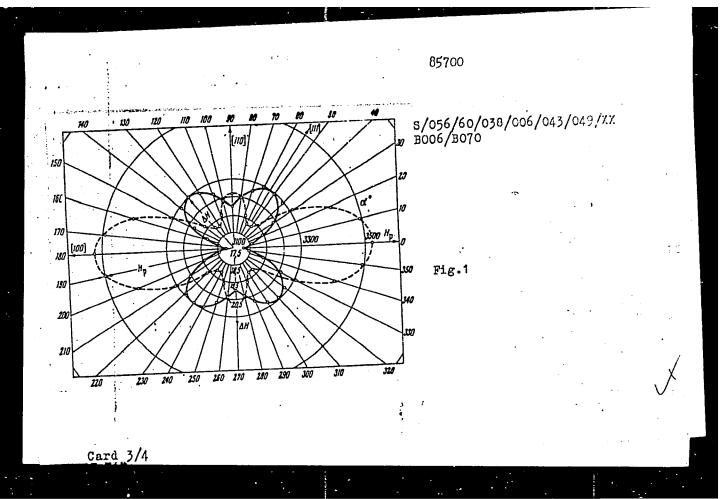
curve). The anisotropy of ΔH at room temperature had an amplitude of (3.5 ± 0.5) oe. The broken line shows the anisotropy of the resonance field H_p . The anisotropy character of ΔH is in agreement with the

phenomenological calculations of G. V. Skrotskiy and L. V. Kurbatov (Ref.5). Fig.2 shows ΔH, 4πI_s, and the constant of magnetic anisotropy K_1 as functions of T (in the temperature range 0 ~ 300°C) for a specimen having the composition last mentioned in the Table. There are 2 figures, 1 table, and 5 references: 3 Soviet and 2 US.

Institut kristallografii Akademii nauk SSSR (Institute of Crystallography of the Academy of Sciences USSR) ASSOCIATION:

March 18, 1960 SUBMITTED:

Card 2/4



APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001342420013-1"

ACCESSION NR: AP3001285

s/0181/63/005/006/1643/1648

AUTHOR: Manenkov, A. A.; Popova, A. A.; Khaimov-Mal'kov, V. Ya.

86 82

TITLE: Investigation of crystal-field inhomogeneity in the ruby

SOURCE: Fizika tverdogo tela, v. 5, no. 6, 1963, 1643-1648

TOPIC TAGS: crystal-field inhomogeneity, ruby laser, EPR-line broadening, trigonal axis dispersion

ABSTRACT: Inhomogeneous EPR-line broadening caused by local inhomogeneities of the crystal field and dispersion of the trigonal axis orientation has been used to study such inhomogeneities in the ruby and their reaction to thermal treatment. The method yielded direct information on the nature of the local crystal field around paramagnetic ions in crystals and the influence of this field on the energy levels of the ions. Relative peak intensity rather than line width was used as a measure of crystal-field inhomogeneity in various 0.0% Cr sup plus 3 ion-concentration samples. Measurements were made with an EPR radio spectroscope operating at 9400 Mc. Small samples (volume approximately 0.5 cm

Card 1/2

mcs/ CA_ Card 2/2

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s/0070/64/009/001/0128/0129

ACCESSION NR: APLO12290

AUTHOR: Popova, A. A.

TITLE: A constant relationship in the Verneuil method

SOURCE: Kristallografiya, v. 9, no. 1, 1964, 128-129

TOPIC TAGS: Verneuil method, constant relationship, crystallization, metallic oxide, fulminating mixture, open flame, oxidation energy, hydrogen: oxygen ratio

ABSTRACT: Experiments were conducted to prove the author's assumption that there exists a direct relation between the stability of oxides and the composition of flame in which their crystallization takes place. The maximum energy of metal oxidation (Amax) and the volumetric ratio of H2/02 fed to the burner were taken as oxidation (A_{max}) and the volumetric ratio of H₂/O₂ fed to the burner were taken as the experimental criteria. A study of the author's previous work showed that crystalline nuclei of CoO, NiO, and Fe₃O₁ originate in the gas mixtures of crystalline nuclei of CoO, NiO, and Fe₃O₁ originate in the gas mixtures of crystalline nuclei of CoO, NiO, and Fe₂O₃ were melted and allowed to form 1.9-2.0:1; 2.1-2.15:1; 2.5-2.6:1. These ratios agree well with A_{max} for the corresponding oxides. Co₂O₃, Ni₂O₃, and Fe₂O₃ were melted and allowed to form crystalline coO, NiO, and Fe₂O₃ under controlled conditions. From the results crystalline CoO, NiO, and Fe₂O₃ under controlled conditions. From the results crystalline CoO, NiO, and Fe₂O₃ under controlled conditions. Should tained a curve was plotted with A_{max} as the ordinates and H₂/O₂ as abscissas. Extrapolation of this curve located the points at which MnO and Mn₃O₁, should Extrapolation of this curve located the points at which MnO and Mn304 should Card 1/22

ACCESSION NR: APLO12290

crystallize (see Fig. 1 of the Enclosure). Further experiments proved the validity of the original assumption. MnO crystallized at H2/O2 = 4.0-4.1:1 and Mn3O4 at 1.55:1. Apparatus used in this work had been previously described by S. K. Popov (Sb. "Rost kristallov", 2. Izd-vo AN SSSR, M., 1959, str. 140-210). "The author thanks O. K. Mel'nikov for the x-ray analysis of the specimens." Orig. art. has: 1 graph and 1 table.

ASSOCIATION: Institut kristallografii AN SSSR (Institute of Crystallography AN SSSR)

DATE ACQ: 19Feb64

ENCL: O

SUBMITTED: 26Apr63

SUB CODE: PH, CH

NO REF SOV: 002

OTHER: 000

Card 2/32

UR/0020/66/169/001/0092/0093 GG/JD/JG IJP(c) EWT(1)/EWT(m)/EWP(t)/ETI SOURCE CODE: L 09208-67 AP7002765 ACC NR: ORG: Institute of Crystallography, AN SSSR (Institut kristallografii AN SSSR) TITIE: Production of single crystals of oxides of the rare earth elements by the SOURCE: AN SSSR. Doklady, v. 169, no. 1, 1966, 92-93 TOPIC TAGS: rare earth metal, inorganic oxide, crystal growth
ABSTRACT: The possibility of applying the Vernouil method to the production of oxides containing lanthanides with atomic numbers from 62 to 71 was explored, and the pormissible limits of fluctuation of the gas systems of crystallization of various compositions were established. All the rare earth oxides tested, with the exception of that of terbium, acquired a trivalent state independent of the oxidation-reduction protential of the medium in the crystallization space during growth of crystals by the Verneuil mothod. The crystals of sesquioxides of the tested series of lanthanides, produced by the Verneuil method, belong to two classes of structural modifications: Sm203, and Gd203 are monoclinic, whereas Dy203, Ho203, Er203, Tm203, Yb203, and Lu203 are cubic. The micro-hardnesses of the investigated crystals increased with increasing atomic number. An exception was Dy203, the comparatively high hardness of which is attributed by the authors to the presence of impurities of nonlanthanide elements. paper was presented by Academician A. V. Shubnikov on 25 October 1965. The authors thank O. K. Mel'nikov for the discussions of the results of the x-ray analysis of the samples. Orig. art. has: 1 table. [JPRS: 38,139] SUB CODE: 20, 07 / SUBM DATE: 250ct65 / ORIG REF: 004 / OTH REF: 004 1643 012 Cord 1/1 5,0

POFOVA, A. A. and FOPOV, V. P.

"The effect of nutritional conditions on the yield and quality of augar sorghum," Nauch.

"The effect of nutritional conditions on the yield and quality of augar sorghum," Nauch.

"The effect of nutritional conditions on the yield and quality of augar sorghum," Nauch.

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"The effect of nutritional conditions on the yield and quality of augar sorghum," Nauch.

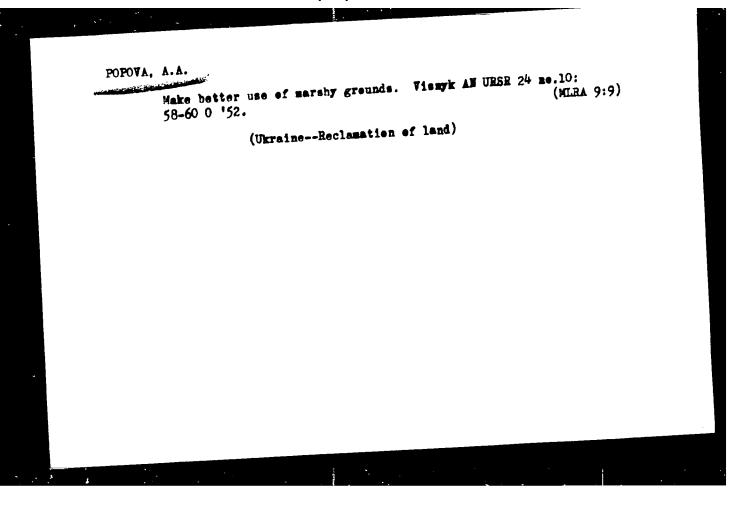
"The effect of nutritional conditions on the yield and quality of augar sorghum," Nauch.

"The effect of nutritional conditions on the yield and quality of augar sorghum," Nauch.

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"The effect of nutritional conditions on the yield and quality of augar sorghum," Nauch.

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POPOVA, A. A.

Popova, A. A.

"The effect of the food factor on the development and multiplication of aphids (on the example of the green apple aphid, Aphis pomi Deg.)."
Min Higher Education USSR. Leningrad Agricultural Inst. Leningrad,
1956. (Dissertation for the Degree of Candidate in Agricultural Sciences.)

Knizhnaya Letopis' No. 25, 1956. Moscow.

POPCVA, A. A.

Popova, A. A. "Alimentary toxic aleukia in certain regions of Kirov Oblast in 1942-1946," Trudy Kirovskogo in-ta epidemiologii i mikrobiologii, Collection 2, 1948, p. 77-80.

So: U-3736, 21 May 53, (Letopis 'Zhurmal 'nykh Statey, No. 17, 1949)

USER/Medicine - Paralysis, Facial Nov 48

Medicine - Drugs, Administration
and Dosage

"Treatment of Paralysis of the Facial Nerve With Eserine," G. L. Ostapovich, A. A. Popova, Clinic for Nerve Diseases, Voronezh Med Inst, 1 p

"Sov Med" No 11

POPOTA, A. ..

Describes results of administration of eserine (Physostigminum salicylicum, Merk, 1:1000) in subject affliction. Best results obtained from eserine administrations supplemented with administrations of aspirin, salicylates, urotropine, iodine preparations, and heat treatments.

24/49751

FORCHA, A. A. Win this climical adjusts and the pathogenesis of arthritio teleprine from the climical adjusts and the pathogenesis of arthritio teleprine (to-called lake discuss)", Trudy Toronombak, pass rais in-ta, Vol. Will, liby, p. 45-76.

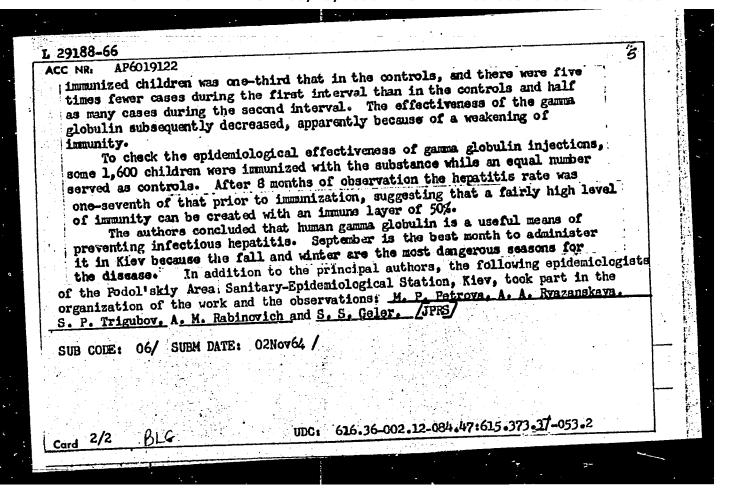
(co-called lake discuss), (Lakelik Thermal Trykt States, he. 2h, 1989).

BOLOTINA, O.P.; POPOVA, A.A.

Reflect of phenamine upon conditioned motor reflexes to time in the (MLRA 7:5) lower apes. Trudy instriction no.2:64-68 '53. (MLRA 7:5)

1. Laboratoriya sravnitel noy fiziologii vyeshey nervnoy deyatel nosti (zaveduyushchiy - L.G. Voronin). (Phenocoll) (Conditioned response)

UR/0016/65/000/011/0138/0138 EWT(1)/T L 29188-66 SOURCE CODE: ACC NR: AP6019122 AUTHOR: Trukhan, P.T.; Tishchenko, I.T.; Stankevich, L.A.; Popova, 30 ORG: Kiev Institute for the Advanced Training of Physicians (Kiyevskiy institut Dobrovskaya, A.R. usovershenstvovaniya vrachey); Kiev Municipal Sanitary-Epidemiological Station (Kiyevskaya gorodskaya sanitarno-epidemiologicheskaya stantsiya); Podol'skiy Area Sanitary-Epidemiological Station, Kiev (Sanitarno-epidemiologicheskaya stantsiya Podol'skogo rayona Kiyeva) TITLE: Use of gamma globulin to prevent infectious hepatitis in children. II. Results of epidemilogical observations among groups of children. This paper was presented at the meeting of the Kiev City Society of Microbiologists, Epidemiologists and Infectious Diseases Specialists on 30 September 1964/ SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 11, 1965, 138 TOPIC TAGS: gamma globulin, hepatitis, epidemiology, immunization, man In September 1963 some 5000 children in nurseries, kindergartens, and grade schools in Kiev were immunized Wwith a single 3 ml dose of human ABSTRACT: gamma globulin while an equal number served as controls. The observation period of 13 months consisted of two intervals: (1) October 1963 to May 1964 and (2) June to September 1964. The incidence of hepatitis among the Card 1/2



UR/0016/65/000/011/0138/0138 L 29188-66 EWT(1)/T SOURCE CODE: ACC NR: AP6019122 AUTHOR: Trukhan, P.T.; Tishchenko, I.T.; Stankevich, L.A.; Popova, Dobrovskaya, A.R. ORG: Kiev Institute for the Advanced Training of Physicians (Kiyevskiy Institut usovershenstvovaniya vrachey); Kiev Municipal Sanitary-Epidemiological Station (Kiyevskaya gorodskaya sanitarno-epidemiologicheskaya stantsiya); Podol'skiy Area Sanitary-Epidemiological Station, Kiev (Sanitarno-epidemiologicheskaya stantsiya Podol'skogo rayona Kiyeva) TITLE: Use of gamma globulin to prevent infectious hepatitis in children. II. Results of epidemilogical observations among groups of children. This paper was presented at the meeting of the Kiev City Society of Microbiologists.
Epidemiologists and Infectious Diseases Specialists on 30 September 1964 SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 11, 1965, 138 TOPIC TAGS: gamma globulin, hepatitis, epidemiology, immunization, man In September 1963 some 5000 children in nurseries, kindergartens, and grade schools in Kiev were immunized with a single 3 ml dose of human gamma globulin while an equal number served as controls. The observation period of 12 months consisted of two intervals: (1) October 1963 to May 1964 and (2) June to September 1964. The incidence of hepatitis among the Card 1/2

L 29188-66 ACC NR AP6019122 immunized children was one-third that in the controls, and there were five times fewer cases during the first interval than in the controls and half as many cases during the second interval. The effectiveness of the gamma globulin subsequently decreased, apparently because of a weakening of To check the epidemiological effectiveness of gamma globulin injections, some 1,600 children were immunized with the substance while an equal number served as controls. After 8 months of observation the hepatitis rate was one-seventh of that prior to immunization, suggesting that a fairly high level of immunity can be created with an immune layer of 50%. The authors concluded that human gamma globulin is a useful means of preventing infectious hepatitis. September is the best month to administer it in Kiev because the fall and winter are the most dangerous seasons for the disease. In addition to the principal authors, the following epidemiologists of the Podol'skiy Area: Sanitary-Epidemiological Station, Kiev, took part in the organization of the work and the observations: M. P. Petrova. A. A. Ryazanskaya S. P. Trigubov, A. M. Rabinovich and S. S. Geler. JPRS SUB CODE: 06/ SUBM DATE: 02Nov64 / Card 2/2 UDC: 616.36-002.12-084.47:615.373.27-053.2

L 63478-65 EWT(m) BIAAF ACCESSION NR: AR5003766 s/0272/64/000/010/0126/0126., 389:539.16.07:551.510.04

SOURCE: Ref. zh. Metrologiya i izmeritelinaya tekhnika. Otd. vyp., Abs. 10.32.797

AUTHOR: Zhelaznova, Ye. I. Popova, A.A.

TITLE: Using the scintillation alpha-chambers in dosimetry work

CITED SOURCE: Byul. nauchno-tekhn. inform. Gos. geol. kom-ta SSSR. Otd. nauchno-tekhn. inform. VIMSa, no. 6(50), 1963, 70-73

TOPIC TAGS: scintillation alpha chamber, dosimetry, radon dosimeter

TRANSLATION: Using the scintillation alpha-chambers for determining low radon concentrations (under 10-12 curie/lt) in air-contamination desimetry is reported. The chamber size was selected on the basis of the maximum alpha-particle range and air-sampling conditions. It was found experimentally that, in measuring small quantities of radon, the vacuum method of air sampling must be replaced by the activated-carbon method of sampling. This enhances the sensitivity of determining radon concentration.

SUB CODE: NP, EC Card 1/1 mg ENCL: 00

POROVA, A.A.

On a certain regularity in Verneuil's method. Kristallografiia
9 no.1:128-129 Ja-F '64.

1. Institut kristallografii AN SSSR.

LAVSKIY, G.K., prof.; KORNOPELEVA, Ye.N.; POPOVA, A.A. [deceased]; KOLPASHCHIKOVA, L.P.

Electric anesthesia in treating hypertension. Terap.arkh. 31 no.4: 62-70 Ap '59. (MIRA 14:5)

1. Iz bol'nitsy 4-go Glavnogo upravleniya Ministerstva zdravookh-raneniya SSSR, Moskva.

(ELECTRIC ANESTHESIA) (HYPERTENSION)

Soil Science. Physical and Chemical Proper-Country Category ties of Scils.

RZhBiol., No 6, 1959, No 24611 Abs Jour

Batalin, A. Kh.; Bogdanova, Ye. S.; Popova, A. A.; Sadovskaya, L. V.; Filimonova, Z. G.; Author Khmelevskaya, N. A.; Shtark, P. A.

All-Union Chemical Society imeni D. I. Men-Inst

deleyev

The Contents of Boron, Cobalt, Copper, Molybdenum, Nickel, Manganese and Fluorine in Certain Soils of the Sorochinskiy Rayon in Title

Chkalovskaya Oblast. : Vest. Chkalevskogo obl. otd. Vses. khim.

o-va im. D. I. Mendeleyeva, 1957, vyp. 7, 7-9 Orig Pub

: Determination of the microelements was conducted in the arable and subgrable horizons of Abstract chernozem soils under different cultivations.

1/3 Card

Soil Science. Physical and Chemical Proper-USSR Country

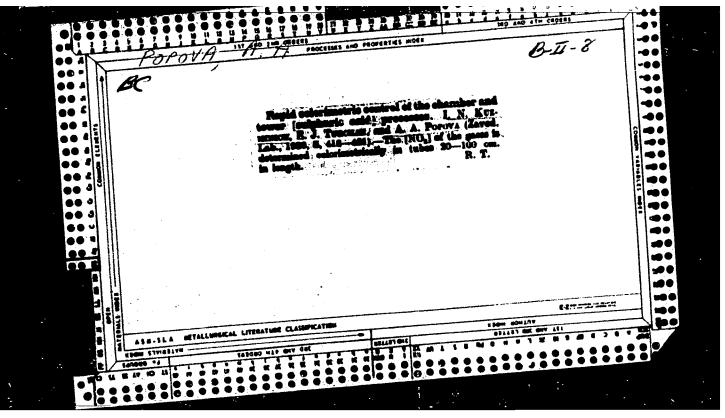
ties of Soils. Category

APPROVED FOR RELEASE 108 (25 \$ 2000 959 CINOR PER 1011 PROVED FOR RELEASE 1018 | 1018 PROVED Abs Jour

Author Inst Title Orig Pub

Analyses were conducted according to the methods of the Institute of Geochemistry and Analytical Chemistry AS USSR. The contents of Abstract the microelements fluctuate percentagewise: B, 0.00053-0.0017; Co, 0.00045-0.00045; Cu, 0.0002-0.011; Mo, 0.00011-0.036; Ni, 0.000018-0.0064; Mn, 0.0027-0.067; F, 0.0013-0.061. The quantity of the microelements in the inve-

: 2/3 Card



POPOVA, A.A.; EDEL'SHTEYN, A.Ya.

Practice in studying spore-pollen remains in petroleum of the Valensk oil field. Izv.AN Mold.SSR no.7:75-80 '64. (MIRA 18:12)

POPOVA, A.B., uchitel'nitsa khimii (g. Kharmanli, Narodnaya Respublika
Bolgariya)

Chemical evening on the topic "Catalysis." Khim.v shkole 18
no.2:80.81 Mr-Ap '63.

(Bulgaria...Chemistry...Study and teaching)

(Catalysis)

ORZHESHKOVSKIT, V.V.; SHILIAYEVA, T.I.; POFOVA, A.D.

Significance of the Thorn test in ACTH treatment of patients with infectious nonspecific polyarthritis. Sov.med. 23 no.11:43-45 N 159.

1. Is Sochinekogo nauchno-issledovatel'skogo instituta revmatizma (direktor - prof.M.M. Shikhor) Ministerstva zdravookhraueniya RSFSR. (AMPHRITIS, RHEMMATOID therapy)

(COMPICOTROPIN therapy)

(ADRENAL CORTEX funct. tests)

TSVERIANISHVILI, G.K.; FILINOV, B.N.; POPOVA, A.D.

Diagnostic value of Valdman's cup endothelial test in rheumatic fever. Vrach.delo no.10:123-124 0 60. (MIRA 13:11)

1. Sochinskiy institut revmatizma. (RHEUMATIC FEVER)

FILINOV, B.N.; TSVERIANISHVILI, G.K.; POPOVA, A.D.

Diagnostic value of local leucocytosis in rheumatic heart lesions. (MINA 15:1) Sov. med. 25 no.6:136-138 Je '61.

1. Iz kardiologicheskoy kliniki (zav. - dotsent N.M.Shikhova), kliniki aktivnogo revmatizma (zav. - prof. M.M.Shikhov) i kliniko-biokhimicheskoy laboratorii (zav. - dotsent V.A.Tikhonravov) Sochinskogo nauchno-issledovatel skogo instituta revmatizma (dir. - prof. M.M.Shikhov).

(RHEUMATIC HEART DISEASE) (LEUCOCYTOSIS)

POFOVA, A. F. Min Health RSFSR. Kuybyshev State Medical Inst. Chair of Hospital Surgery.

POPOVA, A. F. "Some problems in the treatment of chronic hematogenic osteomyelitis."

Min Health RSFSR. Kuybyshev State Medical Inst. Chair of Hospital Surgery.

Kuybyshev, 1956.

(Dissertation for the Degree of Candidate in Medical Sciences)

SQ: Knizhnaya Letopis' No. 20, 1956

POPOVA, A.G.

Effect of wind velocity on the distribution of wave elements. Vest.Mosk.un.Ser.mat., mekh., astron., fiz., khin. 14 no.3: 83-92 '59. (MIRA 13:5)

1. Kafedra fiziki morya i vod sushi Moskovskogo gosudarstvennogo universiteta.

(Waves)

ACCESSICN NR: AT4010229

8/3056/63/000/000/0085/0091

AUTHOR: Ivanov, V. N.; Popova, A. G.

TITIE: Experimental determination of statistical moments

SOURCE: Issledoveniye nizhnego 300-metrovogo sloya atmosfery*. Moscow, 1963,

85-91

TOPIC TAGS: meteorology, statistical moment, meteorological field, wind velocity, air temperature, lower atmosphere, turbulence

ABSTRACT: In using statistical moments to evaluate quantitative observations of turbulent fields of velocity, temperature, etc., moments of higher than second order must be employed for the less pronounced attributes of random processes. In the present article a method is cited which uses the values distributed in the vicinity of the center of gravity of distribution rather than the unlikely values given by the distribution law. A system of numerical calculation is presented which is less sensitive to experimental errors. Mathematical substantiation of the method is provided in the form of tables, graphs, and formulas. As an example, the variations in air temperature at an altitude of 25 meters

Card 1/2

ACCESSION NR: AT4010229

around some arbitrary zero point are examined. The distribution of pulses in the longitudinal components of wind velocity is considered, and mathematical expressions are derived for determining the asymmetry and the Rayleigh excess; expressions are derived for determining the asymmetry and the Rayleigh excess; in the first case the error was about 25% and in the second about 30%, both in the first case the error was about 25% and in the second about 30%, both values permissible in a number of cases arising in practice. Orig. art. has: 2 tables, 5 graphs, and 18 formulas.

ASSOCIATION: none

SUB CODE: AS, MA

SUBATTIED: 00

DATE ACQ: 20Feb64

ENCL:

NO REF SOV: 000

OTHER: 000

Card 2/2

APPROVED FOR RELEASE: 08/25/2000

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3.4000 10.4000 26-(1) y-3-(9)

Popova, A. G.

68043 sov/55-59-3-11/32

AUTHOR: TITLE:

The Influence of Wind Velocity on the Distribution of Wave

Elements

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki,

astronomii, fiziki, khimii, 1959, Nr 3, pp 83 - 92 (USSR)

ABSTRACT:

The author endeavored to find out by direct observation of wave formation whether the wind velocity actually exerts an essential influence on the distribution of wave elements on the surface of a container of water. Yu. M. Arvlov (Ref i) and I. S. Brovikov (Ref 2) already previously gave an expression for the probability density of the deviation of a buoy used for purposes of measurement from its resting position and also for the integral distribution function of this quantity. At the Chernomorskoye otdeleniye Morskogo gidrofizicheskogo instituta AN SSSR (Krym, Katsiveli) (Black Sea Department of the Maritime Institute of Hydrophysics of the AS USSR; Crimes, Katsiveli) and immediately on the Black Sea, a profile of the wind-waved surface of a water container that was sufficiently independent of distortions due

| Card 1/4

68043

The Influence of Wind Velocity on the Distribution of SCY/55-59-3-11/32 Wave Elements

to apparatus was obtained. The waves were recorded through the glass window of the basin by means of the method of slot photography first developed by A. N. Krylov (Ref 6). In August and September 1957 measurements were carried out on the open sea by means of a wave recorder. The operation of the wave recorder constructed by the author is discussed. The agitated surface of Ψ the sea was recorded at three different wind velocities: 9.5, 6.4, and 3 m/sec. With decreasing wind velocity the integral curves of the distribution of heights and periods of the waves on the surface of the storm basin become steeper with respect to the axes of the heights and cease at lower heights h of the waves. The integral curves constructed for the periods do not show so marked a dependence on wind velocity. The character of probability densities depends essentially on wind velocity. In the case of an unsteady agitation of the sea, the spectral range of heights was narrower and the elements of the developing wave were lower than the elements of the wave which is steady at the same wind velocity. The curves of the probability densities of heights and periods determined by the author are shifted with respect to one another by asymmetric curves, which is indicative

Card 2/4

68043

The Influence of Wind Velocity on the Distribution of SOV/55-59-3-11/32 Wave Elements

of a considerable influence being exerted by wind velocity upon the distribution of wave elements. Each curve for the probability density of the logarithms of the heights h and the periods τ for various wind velocities may be represented by functions of $\frac{-(x-\beta)^2}{2}$

the kind $f(x) = \frac{1}{2\pi a} = \frac{-(x-\beta)^2}{2\sigma}$, where x = 1gh or $x = 1g\tau$ holds.

The parameter α determines the absolute amount of the maximum of each curve, β - the shift of the curve along the abscissa axis, and σ - the width of the spectrum. The parameters α, β , and σ increase with an increase of wind velocity. The functions f(lgh) and f(lgr) for the storm channel, the storm basin, and for the open sea are explicitly written down. The mean square height of the wave determining the mean energy of the gravitational waves is proportional to the second power of the wind velocity. There are 8 figures, 2 tables, and 9 references, 5 of which are Soviet.

Card 3/4

POPOVA. A.I., kandidat tekhnicheskikh nauk, dotsent; SHCHTHBAKOV, I.M., kandidat tekhnicheskikh nauk, dotsent.

Regeneration of metals and salts in worn-out electrolytes.

(MLRA 9:9)

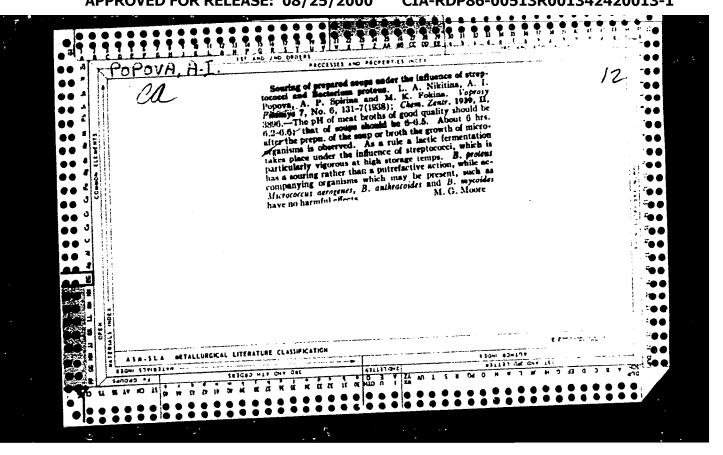
Trudy MVTU no.36:41-48 '55.

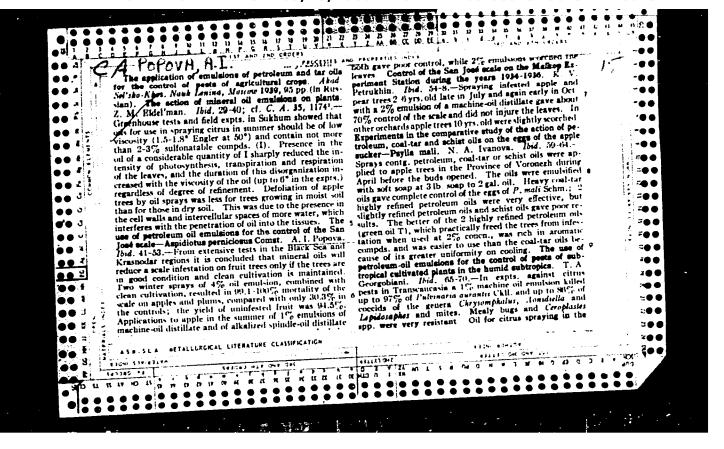
(Electrolytes)

POPOVA, A.I.

Beryllometer. Razved. i ok. nedr 26 no.4:61 Ap '60. (MIRA 15:7)

1. Vsesoyuznyy geologicheskiy fond.
(Beryllium) (Radioactive prospecting—Equipment and supplies)





PUPUVA, A. I.

POPOVA, A. I.: "Material on the history of development of the flora of Central yakutiya in the Quaternary period". (Based on data from spore and pollen analysis). Yakutsk, 1954. Yakutsk Affiliate, Acad Sci USUR. (Dissertations for the Degree of Candidate of Biological Sciences.)

So: Knizhnaya letopis! No. 49, 3 December 1955. Moscow.

POPOVA, A. I.

"Information on the History of the Development of the Vegetation of Central Yakutsk in the Quaternary Period (According to Spore-Pollen Analysis)."
Cand Geol Sci. Moscow Order of Lenin State U imeni M. V. Lomonosov, Moscow, 21 Jan 55. (VM, 11 Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

POPONAGLALICATION

Spore and pollen analysis of Quaternary deposits of central Yakutia in connection with the history of development of its vegetation during the post-Tertiary period. Trudy Inst.biol.IAk.fil. AN SSSR no.1:136(MIRA 10:1)
146 155.

(Yakutia--Paleobotany, Stratigraphic)

New data on the spore and pollen analysis of Meocene deposit of Northeastern Asia. Biul.MOIP.Otd.biol. 60 no.6:107-113 N-D '55.

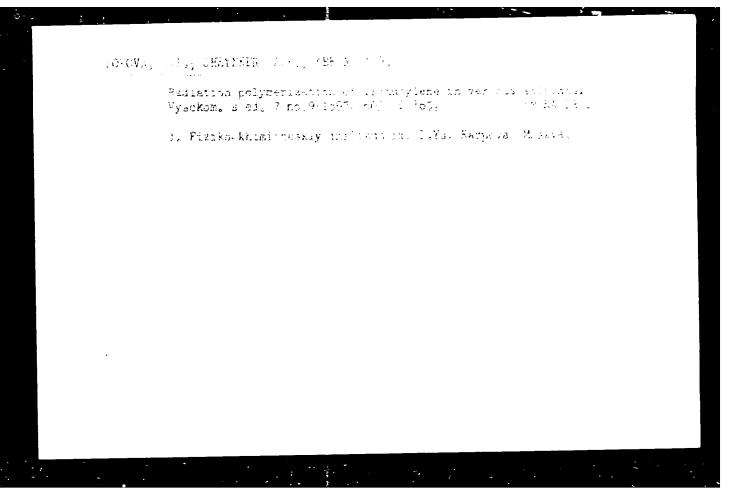
(SIBERIA, MASTERN--GEOLOGY, STRATIGRAPHIC)

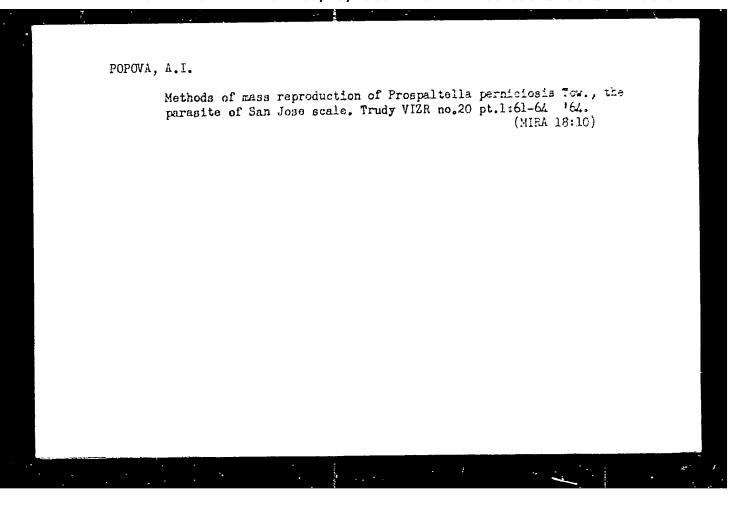
: UESR COUNTRY : Merobiology, Sanitary Microbiology. CATEGORY r i 14535 ABS. JOUR. : Ref Thur-Biologiya, Mo.4, 1959, : Sirctinina, O.R.; Spirina, A.P.; Popova, A.I. : Moscow Sci.Res.Inst.of Sanitation and Hygrene AUTHOR : Sethods of Direct Detection of Bacterial Fox-INST, MITE ins in Food Iroducts. MIG. PUB. : Inform. byul. Mosk. n.-1. in-to senitarii i giriyeny, 1957, No.9, 47-49 : The precipitation reaction was used for the direct isolation of bacterial toxias in tro-THOUSE/UL ducts contaminated by agents of watercolon toxins or proteus. Antitoxin sora were obtained by immunizing rabbits with exo- and enactoxins of different strains of both organisms. The test fluid was superimposed on 0.3 ml of undiluted serum in narrow precipitation tubes. In positive cases the ring or : sediment was obtained after 15 - 30 minutes !

CARD:

1/2

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EWT(m)/EPF(c)/EPF(n)-2/EWP(j)/T/EWA(h)/EWA(1) L 2927-66 WW/GG/RM ACCESSION NR: AP5022607 UR/0190/65/007/009/1597/1603 66.095.26+678.742 AUTHORS: Popova, A. I.; Sheynker, A. P.: Abkin, A. D. TITLE: Radiation polymerization isobutylene in various solvents 19,44,55 SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 9, 1965, 1597-1603 TOPIC TAGS: polymer, radiation polymerization, gamma radiation, isobutylene, inhibitor radiolysis, diisobutylens ABSTRACT: The kinetics of radiation polymerization of isobutylene was investigated in methylene chloride, difluorodichloromethane, tetrafluoromethane, acetone, ethylpropylketone, and tetrahydrofuran. The preparation of test specimens and the experimental procedure are described. The polymerization was carried out at a monomer concentration ranging from 0.5 to 12.0 mole/liter, at -78C, 70 rad/sec. It was found that the rate of polymerization for isobutylene in methylene chloride and difluoredichloromethane at -78C under the effect of gamma rays is higher than in bulk polymerization. The rate of polymerization of isobutylene is decreased by the addition of previously irradiated polyisobutylene. The inhibitor of Card 1/2 Card 2/2_7

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"History of development of quaternary vegetation in Yakutiya."

report submitted for the 7th Intl Cong, Intl Assoc for Quaternary Research, Boulder & Denver, Colorado, 30 Aug-5 Sep 65.

L 15630-65 EWG(j)/EWG(r)/EWT(l)/EWT(m)/FS(v)-3/EPF(c)/EWG(v)/EWP(j)/T/EWG(a)/ ENG(c)/ENA(h)/ENA(1) Pb-4/Pc-4/Pa-5/Pr-4/Pab ASD-3/AFF:C/AFMDC/AND/APGC/ESD(ga)/ S/0020/64/157/005/1192/1195 ESD(t)/ASD(m)-3/AS(mp)-2/AFETR ACCESSION NR: AP4043843 DD/RM 8 AUTHOR. Popova, A. I.; Sheynker, A. P.; Abkin, A. D. of isobutylene TITLE: On the mechanism of radiation induced polymerization and styrene in the presence of solid admixtures SOURCE: AN SSSR. Doklady*, v. 157, 1964, 1192-1195 NA. 5 TOPIC TAGS: polymerization, copolymerization, radiation polymerization, isobutylene, styrene, solid admixture, glass powder, zinc oxide, polymerization temperature, radical mechaism, ionic mechanism, carbonium ion, polymerization constant, alkyl halide ABSTRACT: The role of solid admixtures in such reactions was explored in the separate and copolymerization of the title products under the influence of gamma rays (70 rad/sec., Co⁶⁰) at 0C; using as admixtures glass powder or ZnO in quantities corresponding in volume to the volume of the liquid phase. The kinetics of separate polymerization was studied with the dilatometer, copoly-

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L 15630-65 ACCESSION NR: AP4043843

merization was conducted in ampuls. Results are compared with those published earlier, relating to tests at -78C. At 0C glass had no influence on polymerization while that of ZnO was considerable. The latter catalyzed isobutylene polymerization rapidly, also without irradiation, and its influence increased with time. The molecular weight obtained was about 20,000. Isobutylene and styrene copolymers obtained at 0C with irradiation but without ZnO were styrene-enriched, which points towards a radicalreaction mechanism. Copolymerization with ZnO led to isobutylene-enriched copolymers, pointing towards a ionic reaction mechanism. The copolymerization constants for 0C were 3.3 and 0.2 resp. for isobutylene and styrene with ZnO, 0.5 and 3.7 without ZnO. Decreasing the addition of either monomer led to a considerable decrease of the copolymerization rate. This latter was always lower than that of the separate polymerization reactions. The probable reasons are discussed. It was concluded that radiation-induced copolymerization at 0C proceeds by the radical mechanism in the absence of ZnO, by the ionic mechanism in its presence; the latter apparently increases the life of the carbonium ion in the reaction. This would confirm earlier assumptions on the role played by the surface in the development of

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POPOVA, A.I.; SHEYNKER, A.P.; ABKIN, A.D.

Mechanism of the radiation-induced polymerization of isobutylene and styrene in the presence of solid addition agents. Dokl. AN SSSR 157 no.5:1192-1195 Ag '64. (MIRA 17:9)

1. Fiziko-khimicheskiy institut im. Karpova. Predstavleno akademikom S.S. Medvedevym.

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State of the corneal nerves in burns of the eye. Trudy mol. nauch. sotr. MCNIKI no.1270-72 *59 (MIRA 16:11)

1. Iz kliniki glaznykh bolezney (zav. prof. D.I.Berezinskaya) Moskovskogo oblastnogo nauchno-issledovatel skogo klinicheskogo instituta imeni Vladimirskogo.

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